

WHAT IS CLAIMED IS:

1. An optical information recording medium comprising:

a substrate;  
a light-reflective layer formed on the substrate;  
a recording layer formed on the light-reflective layer, which records information when irradiated with laser light; and  
a thin protective layer formed directly on the recording layer, the thin protective layer transmitting laser light used for information recording and reproduction and being made of a photocurable resin that has been cured by being irradiated with visible light.

2. The optical information recording medium according to claim 1, wherein the material for the substrate is selected from the group consisting of glass, polycarbonates, acrylic resins, vinyl chloride resins, epoxy resins, amorphous polyolefins, polyesters and aluminium.

3. The optical information recording medium according to claim 1, wherein the light-reflective layer includes a light-reflective substance selected from the group consisting of Cr, Ni, Pt, Cu, Ag, Au, Al and stainless steel.

4. The optical information recording medium according to claim 3, wherein thickness of the light-reflective layer is from 10 nm to 500 nm.

5. The optical information recording medium according to claim 1, wherein the recording layer includes a colorant selected from the group consisting of cyanine dyes, oxonole dyes, metal complex dyes, azo dyes and phthalocyanine dyes.

6. The optical information recording medium according to claim 1, wherein the recording layer includes a recording substance selected from the group consisting of cyanine compounds, aminobutadiene compounds, benzotriazole compounds and phthalocyanine compounds.

7. The optical information recording medium according to claim 1, wherein thickness of the thin protective layer is from 10 to 300  $\mu\text{m}$ .

8. An optical information recording medium comprising:

- a substrate;
- a light-reflective layer formed on the substrate;
- a recording layer formed on the light-reflective layer, which records information when irradiated with laser light;
- an adhesive layer formed on the recording layer, the adhesive layer being made of a photocurable resin that has been cured by being irradiated with visible light;
- and
- a thin protective layer formed on the adhesive layer, the thin protective

layer transmitting laser light used for information recording and reproduction.

9 The optical information recording medium according to claim 8, wherein the adhesive layer includes a photocurable resin into which a photopolymerizable unsaturated group has been introduced to a modified resin selected from the group consisting of acrylate resins, urethane resins, epoxy resins, polyester resins, polyether resins, alkyd resins, polyvinyl chloride resins, fluorine-containing resins, silicone resins, vinyl acetate resins and novolak resins.

10. The optical information recording medium according to claim 9, wherein the photopolymerizable unsaturated group is a group selected from the group consisting of an acryloyl group, a methacryloyl group, a vinyl group, a styryl group, an allyl group, a cinnamoyl group, a cinnamylidene group and an azido group.

11. The optical information recording medium according to claim 8, wherein the photocurable resin includes a resin selected from the group consisting of monomers, prepolymers and oligomers having at least one ethylenically unsaturated double bond in the molecule, and their mixtures and copolymers.

12. The optical information recording medium according to claim 8, wherein the photocurable resin includes a monofunctional or polyfunctional (meth)acrylate having at least one ethylenically unsaturated double bond in the molecule.

13. The optical information recording medium according to claim 8, wherein thickness of the adhesive layer is from 0.1  $\mu\text{m}$  to 100  $\mu\text{m}$ .

14. The optical information recording medium according to claim 8, further comprising a protective layer disposed between the recording layer and the adhesive layer and made of any of  $\text{SiO}$ ,  $\text{SiO}_2$ ,  $\text{MgF}_2$ ,  $\text{SnO}_2$ ,  $\text{Si}_3\text{N}_4$  and  $\text{ZnS}$ .

15. The optical information recording medium according to claim 8, wherein the material for the substrate is selected from the group consisting of glass, polycarbonates, acrylic resins, vinyl chloride resins, epoxy resins, amorphous polyolefins, polyesters and aluminium.

16. The optical information recording medium according to claim 8, wherein the light-reflective layer includes a light-reflective substance selected from the group consisting of Cr, Ni, Pt, Cu, Ag, Au, Al and stainless steel.

17. The optical information recording medium according to claim 16, wherein thickness of the light-reflective layer is from 10 nm to 500 nm.

18. The optical information recording medium according to claim 8, wherein the recording layer includes a colorant selected from the group consisting of cyanine dyes, oxonole dyes, metal complex dyes, azo dyes and phthalocyanine dyes.

19. The optical information recording medium according to claim 8, wherein the recording layer includes a recording substance selected from the group consisting of cyanine compounds, aminobutadiene compounds, benzotriazole compounds and phthalocyanine compounds.

20. The optical information recording medium according to claim 8, wherein thickness of the thin protective layer is from 10  $\mu\text{m}$  to 300  $\mu\text{m}$ .

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